



Education at Glenn



To Inspire the Next Generation of Explorers
...As Only NASA Can

Carol A. Galica
Glenn Centennial of Flight
Education Subcommittee
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Orville and Wilbur Presentations



§ Take a trip back in time with the Wright Brothers discuss the development of the first flying machine with Orville and Wilbur.

§ Program Schedule **

- Public Programs
 - Every third Saturday of the month

- School Programs

January 9	June 11
February 12	September 16
March 11	October 14
April 15	November 11
May 6	December 10

** Additional off-site programs can be scheduled upon request through the Speakers' Bureau



Education at Glenn

Videoconferences and Webcasts

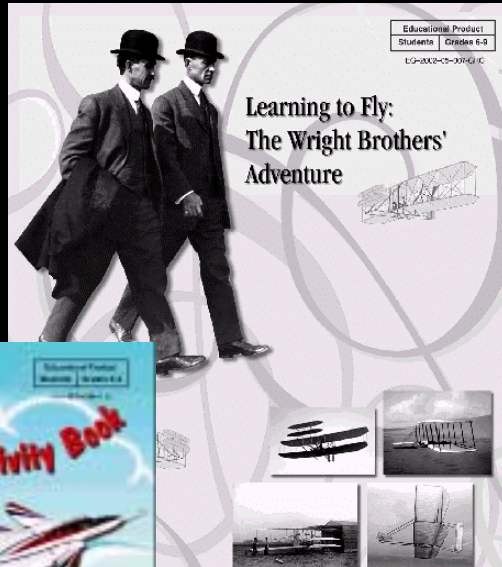


- One hour, interactive webcasts broadcast live from NASA Glenn Research Center
- Students can connect from their computer or through videoconferencing
- Programs:
 - Control Surfaces
 - Propulsion
 - Orville and Wilbur



Education at Glenn

Educational Products



- § Educational Activity Guides
 - Aero Adventure Activity Book (Grades K-2)
 - Wright Brothers Activity Guide (Grades 5-8)

§ Educator Resource Center
21000 Brookpark Rd. MS 8-1
Cleveland, OH 44135
(216)433-2017

- videotape programs
- audio cassettes
- 35-mm slides
- software
- NASA publications



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Educational Technology Products

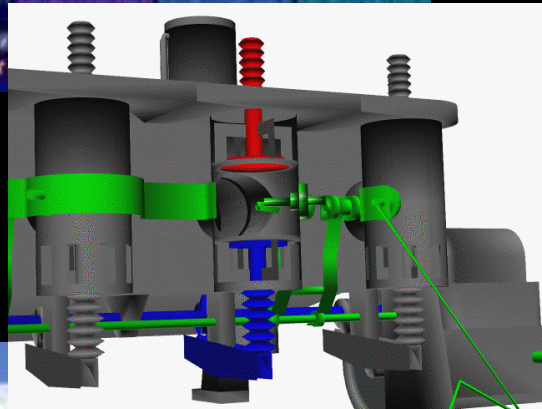


- Interactive K-2 Aero Adventure Activity Book
- Wright Brothers Game that will increase knowledge of the Wright Brothers and the events leading up to that eventful day
- 3-D Immersive Wright Flyer simulator for the VisionStation (in development)
- Interactive simulations of the Wright Brothers inventions



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Re-Living the Wright Way Website



<http://wright.nasa.gov>

- Interactive simulations that show the Wright brothers discoveries
 - Interactive wind tunnel
 - 3-D engine model
 - Wing warping simulation
 - Control surfaces simulation
- Contains hands-on activities
- Calendar of events where there will be a NASA presence



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Educator Workshops



- NASA Explorer Academy
 - One week workshop for educators during the summer
- On-site teacher workshops throughout the year
- Science Engineering Mathematics Aerospace Academy (SEMAA) Annual Conference – April
- Aerospace Education Services Program Conference (AESP) – June
- Urban and Rural Community Enrichment Program (URCEP) – July



Education at Glenn

National Engineers' Week



February 16-22

National Engineers' Week Theme is
Celebrating 100 years of flight

Share the research done at NASA
Glenn with local schools

February 7th workshop for presenters

Last year we reached over 4,000
students in one week



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Educational Outreach Events



- Participation in outreach venues that contain an educational component
 - International Women in Aviation Conference
(Cincinnati, OH - March 20-22)
 - National Science Olympiad
(Columbus, OH - May 10)
 - International Science and Engineering Fair
(Cleveland, OH - May 12-16)
 - Inventing Flight
(Dayton, OH - July 4 - 20)
 - EAA AirVenture's KidVenture
(Oshkosh, WI - July 26 - Aug 4)
 - Cleveland Air Show's Kiddie Hawk activity tent (August 30 – Sept 1)



Education at Glenn

Mobile Aeronautics Education Laboratory



- MAEL is a state-of-the-art classroom housed in a semi trailer that brings aeronautics- based technology to schools and communities
- There 28 sites permanent AEL's located in 15 States and Puerto Rico.



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For More Information



Re-Living The Wright Way

Wright Brothers' Invention Process
Researched How Things Fly
Tested Theories
Developed Flight Control Systems
Developed Test Pilot Skills
Developed Propulsion Systems
The First Flight
Flight Development
Pushing the Envelope
Wright Brothers' Discoveries



[Lesson Plans](#)[Simulations](#)[Webcast/Video](#)[Activities](#)[CD-ROMs](#)

 **What's New**

Centennial of Flight 1903 - 2003

NASA's Centennial of Flight Event Calendar

Wright Brothers' Biographies - click on their images

<http://wright.nasa.gov>